

## Antibacterial Activity Test Report (Simplified Test)

November 21, 2017  
Sinanen Zeomic Co., Ltd.

Y. Kato

**【1】** Test Sample                      Samples**【2】** Test protocol

Test method : JIS Z 2801 test protocol (2012 edition)  
 Bacterial strain : *Staphylococcus aureus* (NBRC 12732)  
                           *Escherichia coli* (NBRC 3972)  
 Cover film size : PE Film (40 mm × 40 mm)  
 Inoculating volume: 0.4mL  
 Pre-treatment: UV10min irradiated  
 Note : Test performed with a single replicate (N=1)  
        Viable count immediately after inoculation performed using a PE film

**【3】** Test resultsUnit: cells/cm<sup>2</sup>

	<i>Staphylococcus aureus</i>		<i>Escherichia coli</i>	
Inoculum size	1.6 × 10 <sup>4</sup>		1.4 × 10 <sup>4</sup>	
Sample name	24hours viable cells	Antibacterial activity rating	24hours viable cells	Antibacterial activity rating
Sample1_VO_PE : BLANK	E4		E6	
Sample2_VO_PE_DAW502_upper : DAW502(0.5%)	E4	C	E6	C
Sample4_V2H_PE_DAW502 : DAW502 (0.5%)	ND	A	E1	A
Sample5_V2H_PE_DAW502_upper : DAW502 (0.5%)	ND	A	E1	A
Sample3_VO_PE_IM10D-L_bottom : IM10D-L (2%)	E1	-	ND	-
Sample6_V2H_PE_IM10D-L_bottom : IM10D-L (2%)	ND	-	ND	-

The "E" included in the tables indicates "exponent", e.g. E5 = 1 to 9 × 10<sup>5</sup>

ND : not detected

**【4】** Antibacterial activity criteria

- A: Clearly antimicrobial activity compared with the un-treated sample.  
 (More than 3 digits difference compared with the un-treated sample)  
 B: High potential antimicrobial activity compared with the un-treated sample.  
 (Two digits difference between un-treated and treated samples)  
 C: Non antimicrobial activity compared to the un-treated sample.  
 (Less than single digit difference between un-treated and treated samples)  
 -: Assessment not possible  
 (Un-treated sample viable count less than E2 or, when un-treated sample not available)

End report